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GRADE/GRAAD 11

**PHYSICAL SCIENCES: CHEMISTRY (P2)
FISIESE WETENSKAPPE: CHEMIE (V2)**

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MEMORANDUM

MARKS/PUNTE: 150

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Nov 2014 Physical Science Gauteng

Franklin Obeng-Odoom



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Anatomy of a South African Karst Hydrosystem Philip J. Hobbs, Harrison Pienaar, Eddie van Wyk, Yongxin Xu, 2022-08-05 This book combines the results of the research activities in the assessment of water resources environment and an integrated water resource monitoring program to support preservation efforts of the aquatic environment of the Cradle of Humankind COH World Heritage Sites A poor understanding of the surface and groundwater resources of the COH property has precipitated often alarmist reporting in the media regarding the negative impacts associated with various sources of poor quality water The most notable of these is the acid mine drainage threat to karst ecosystems and fossil sites across the property These circumstances have generated wide and considerable concern for the preservation of the UNESCO inscribed fossil sites and integrity of the water resources of the property

Acid Mine Drainage and its Governance in the Gauteng City-Region Kerry Bobbins, 2015-05-29 Acid mine drainage AMD has generated an enormous amount of media interest and public concern in the Gauteng City Region GCR over the last decade However it has been framed as a narrow technical concern with government action being directed towards securing the necessary engineering and processing solutions as quickly as possible to prevent decant and treat acid mine water to industrial standards This has arguably limited the scope for full discussion and debate on the impacts of AMD particularly for the environment and this bears implications for how AMD has been managed in the GCR Government's immediate short and long term interventions to address AMD have been set out as a straight forward solution but over time more complex environmental concerns have emerged Becoming more evident over the last few years is that one of the main impacts of AMD will be its effect on the overall water security in the Vaal River System VRS on which the GCR relies for its supply of potable water Limits on water abstraction from the VRS together with the increasing need to maintain the overall water quality in the system through dilution and treatment activities means that AMD is beginning to manifest as a binding constraint on economic development and a burden on society in particular via escalating costs for water consumers Fiscal constraints are likely to see GCR residents and businesses pick up more and more of the costs associated with the treatment of AMD through the format of increased municipal tariffs With final decisions on municipal tariffs now pending the broader yet invisible impacts of AMD loom large This means that the debate has moved far beyond the issue of predicted decant in each of the Witwatersrand's mining basins Water security for the GCR and who will carry the costs associated with the long term treatment of AMD have instead taken centre stage This paper carefully updates the historical record on AMD since the publishing of a GCRO Provocation on the issue in 2010 In doing so it argues that the way in which AMD has been governed raises a flag around how the political economy of an issue such as AMD should be understood publicly debated and managed In particular it suggests that the governance of an environmental challenge such as AMD is not only about finding a technical solution The lack of platforms to ensure well informed public deliberation especially over such issues as who will pay and how must be addressed to ensure

more equitable and transparent decision making In light of the broader mine waste legacy inherited by the GCR and the strong likelihood of environmental contamination becoming more commonplace in the future these concerns are not only limited to AMD They will only grow in importance over time *The Global Practice of Forensic Science* Douglas H. Ubelaker,2015-02-16 The Global Practice of Forensic Science presents histories issues patterns and diversity in the applications of international forensic science Written by 64 experienced and internationally recognized forensic scientists the volume documents the practice of forensic science in 28 countries from Africa the Americas Asia Australia and Europe Each country s chapter explores factors of political history academic linkages the influence of individual cases facility development types of cases examined integration within forensic science recruitment training funding certification accreditation quality control technology disaster preparedness legal issues research and future directions Aimed at all scholars interested in international forensic science the volume provides detail on the diverse fields within forensic science and their applications around the world

Reducing Fuel Consumption and Greenhouse Gas Emissions of Medium- and Heavy-Duty Vehicles, Phase Two National Academies of Sciences, Engineering, and Medicine,Transportation Research Board,Division on Engineering and Physical Sciences,Board on Energy and Environmental Systems,Committee on Assessment of Technologies and Approaches for Reducing the Fuel Consumption of Medium- and Heavy-Duty Vehicles, Phase Two,2020-05-15 Medium and heavy duty trucks motor coaches and transit buses collectively medium and heavy duty vehicles or MHDVs are used in every sector of the economy The fuel consumption and greenhouse gas emissions of MHDVs have become a focus of legislative and regulatory action in the past few years This study is a follow on to the National Research Council s 2010 report Technologies and Approaches to Reducing the Fuel Consumption of Medium and Heavy Duty Vehicles That report provided a series of findings and recommendations on the development of regulations for reducing fuel consumption of MHDVs On September 15 2011 NHTSA and EPA finalized joint Phase I rules to establish a comprehensive Heavy Duty National Program to reduce greenhouse gas emissions and fuel consumption for on road medium and heavy duty vehicles As NHTSA and EPA began working on a second round of standards the National Academies issued another report Reducing the Fuel Consumption and Greenhouse Gas Emissions of Medium and Heavy Duty Vehicles Phase Two First Report providing recommendations for the Phase II standards This third and final report focuses on a possible third phase of regulations to be promulgated by these agencies in the next decade

Thermal Energy Yatish T. Shah,2018-01-12 The book details sources of thermal energy methods of capture and applications It describes the basics of thermal energy including measuring thermal energy laws of thermodynamics that govern its use and transformation modes of thermal energy conventional processes devices and materials and the methods by which it is transferred It covers 8 sources of thermal energy combustion fusion solar fission nuclear geothermal microwave plasma waste heat and thermal energy storage In each case the methods of production and capture and its uses are described in detail It also discusses novel processes and devices

used to improve transfer and transformation processes **Annual Report** South Africa. Department of Basic Education, 2016 Intrusion Detection and Prevention for Mobile Ecosystems Georgios Kambourakis, Asaf Shabtai, Constantinos Kolias, Dimitrios Damopoulos, 2017-09-06 This book presents state of the art contributions from both scientists and practitioners working in intrusion detection and prevention for mobile networks services and devices It covers fundamental theory techniques applications as well as practical experiences concerning intrusion detection and prevention for the mobile ecosystem It also includes surveys simulations practical results and case studies Towards more effective collaboration by higher education institutions for greater regional development in the Gauteng City-Region Robert Bergman, 2014-11-19 Higher education institutions HEIs in the Gauteng City Region GCR and elsewhere are increasingly being called upon to do more than their traditional roles of teaching and research They are now expected to collaborate and engage with other stakeholders with a view to contributing directly and indirectly to social and economic development in their localities Such an orientation includes having HEIs actively fostering public private partnerships and other initiatives that enhance equitable regional development The adoption of such a focus has implications for all aspects of these institutions activities as well as for the policy and regulatory framework in which they operate This Occasional Paper reflects critically on the role of HEIs in regional development It surveys current debates on the matter and draws out some of the implications on how we ought to think further about the current state of government industry academia interaction and collaboration for development in the GCR It is motivated by an awareness of the increasing importance of higher education in the regional development discourse alongside a body of international theory and practice on the contribution of HEIs to regional development A cornerstone of this body of literature is the so called triple helix framework within which government industry and academia work intimately intensely and collaboratively towards a common vision of regional development Within this framework HEIs are considered to be a public good that must play a large meaningful and relevant role in the development and improvement of the cities and regions where they are located 1 2 They do not and cannot stand completely outside the realities of their geographic social cultural and political environment The intended audience for this report extends beyond academics and HEI administrators to include government officials business and labour leaders civil society and citizens because a discussion on stimulating and improving the GCR must be much more than an academic exercise The collaboration that is essential to regional development requires stakeholders to be familiar with a wide spectrum of issues of importance to individual constituencies Each constituency must add value and insight to the discussion by drawing on their specific knowledge experience and self interests Establishing this common ground is fundamental to initiating meaningful debate about what the GCR can and should be and how regional HEIs can work more collaboratively creatively and effectively to improve and advance the region *Handbook on Alternative Global Development* Franklin Obeng-Odoom, 2023-11-03 Challenging the dominant and mainstream views in global development this pioneering Handbook

questions the entirety of the development process in order to outline holistic political economies of development discontents and alternatives **South African national bibliography** ,1999 Classified list with author and title index Yearbook of International Organizations 2013-2014 (Volumes 1a-1b) Union Of International Associations,Union of International Associations,2013-06-21 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events

Reviewing **Nov 2014 Physical Science Gauteng**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Nov 2014 Physical Science Gauteng**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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